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The Chemical Company

April 18, 2013



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**Via Federal Express**

United States Environmental Protection Agency - East  
Attn: TSCA Section 8(e)  
Room 6428  
1201 Constitution Avenue, NW  
Washington, DC 20004



**Subject:** Notice in Accordance with TSCA Section 8(e): Results of an acute inhalation study in Wistar rats with CAS No. 61791-26-2 as liquid aerosol

Dear Section 8(e) Coordinator:

BASF Corporation is submitting information on an acute liquid aerosol inhalation study in Wistar rats (strain CrI:GLX(Br)Han:WI) with Amines, tallow alkyl, ethoxylated, CAS No. 61791-26-2 conducted by BASF SE, Ludwigshafen, Germany. The test substance is a surfactant used in the chemical, technical industry.

**The study was carried out in accordance with the requirements of the international guideline:**

- OECD Guidelines for Testing of Chemicals, Guideline 403

**Scope of the examination**

For determination of the acute inhalation toxicity (single 4-hour-exposure) with CAS No. 61791-26-2, five male and five female Wistar rats per test group were nose-only exposed to liquid aerosol of the test substance. The measured concentrations of 0.27, 0.6, 2.3 and 5.7 mg/l were tested. During the 14 days of post exposure observation period, body weights were determined, and examinations for clinical signs of toxicity were carried out. Gross necropsy was carried out at termination of the study, as well as in animals that died during the study.

**The following is a summary of the most relevant results:**

Cascade impactor measurements resulted in particle size distributions with mass median aerodynamic diameters (MMADs) between 1.0 and 2.2µm, which are well within the respirable range.

One of five males and three of five females died at 0.27 mg/L, as well as two of five males and two of five females at 0.60 mg/L. At 2.3 and 5.7 mg/L, all the male and female died. Lethality was observed after exposure on study day 0, on study day 1 - 4, 9, 10 or on study day 12.

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Clinical signs of toxicity in animals comprised visually accelerated respiration, gasping, respiration sounds, crust formation around the nose, apathy, squatting posture, reduced general state, piloerection and smeared fur. The duration of the findings ranged from h0 of the exposure until including study day 14. Attempts to escape were generally observed at the beginning of the exposure (h0). Substantially reduced body weights were observed in the surviving animals.

Gross necropsy findings of the animals that died comprised diffuse red discoloration of all lung lobes, lung emphysema, congestion, severe dilatation of the gastro intestinal tract filled with gaseous matter. Histopathological examinations were carried out in the lungs of two randomly selected female animals (0.27 mg/l), which died shortly after exposure. Various lung lesions including lung congestion, alveolar edema and multifocal suppurative (partly necrotic) broncho pneumonia were observed in both of them.

Under the described study conditions, the LC50 value for male and female animals was 0.473 mg/L.

BASF Corporation understands that reporting of the results from this study under TSCA 8(e) is in accordance with EPA's policy.

Please note the technical contact and address below and direct all correspondence regarding this submission accordingly. If you have any questions, please call (248) 948-2051.

Sincerely,

Technical Contact: Alisa Boucher

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Product Regulatory Center of Expertise – North America  
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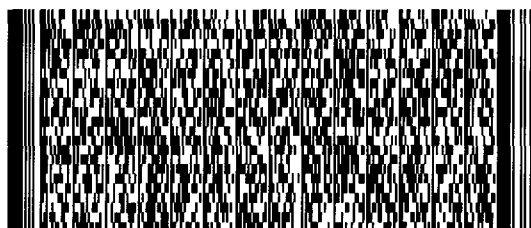
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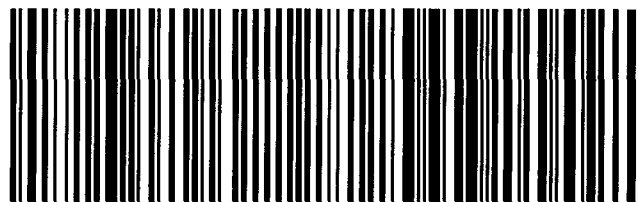
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